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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,437	09/08/2003	Wen-Ghih Tsang	021164-000310US	4741	
20350	7590 09/05/2006	EXAMINER		INER	
	ND AND TOWNSEN ARCADERO CENTER	DAVIS, RUTH A			
EIGHTH FL			ART UNIT	PAPER NUMBER	
SAN FRANCISCO, CA 94111-3834			1651		
•	•		DATE MAILED: 09/05/200	DATE MAILED: 09/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/658,437	TSANG ET AL.		
		Examiner	Art Unit		
		Ruth A. Davis	1651		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠	Responsive to communication(s) filed on 22 Ju				
,—	This action is FINAL . 2b) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims				
 4) Claim(s) 1-55 is/are pending in the application. 4a) Of the above claim(s) 1-5 and 35-55 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 6-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:			

DETAILED ACTION

Applicant's amendment and response file don June 22, 2006 have been received and entered into the case. Claims 1 - 55 are pending; claims 1 - 5 and 35 - 55 are withdrawn from consideration; claims 6 - 34 have been considered on the merits. All arguments have been fully considered.

Claim Rejections - 35 USC § 112

Rejections under 35 U.S.C. 112, second paragraph, have been withdrawn due to amendment.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 6 – 34 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Fung et al. (US 6326201) in view of Shipley et al. (1997).

Applicant claims a method for obtaining a culture of propagating pancreatic cells, comprising isolating pancreatic cells from a pancreas, contacting the cells with a CD56 binding reagent, selecting the cells that bind to CD56, and separating the cells that do not bind to the CD56, to obtaining a culture of propagating pancreatic cells. The binding reagent is labeled; the cells are selected by FAS or panning; the binding reagent is an antibody that binds to the CD56 protein; the pancreas is human; the cells are further differentiated into an aggregate of insulin producing cells wherein differentiation comprises culturing the cells on plates coated with collagen IV. The media comprises a differentiation factor selected from hepatocyte growth factor (HGF), keratinocyte growth factor or exendin-4, specifically hepatocyte growth factor.

Fung teaches a method for obtaining a culture of pancreatic cells (abstract) the method comprising obtaining pancreas cells, culturing the cells, isolating viable cells, culturing the cells and differentiating the cells (col.10-11). The cells are obtained from human pancreas (col.11), the cells are selected by FAS or panning (col.14,19-20), the cells are differentiated into aggregates of insulin producing cells (col.12), the cells are differentiated with HGF (col.15), and/or are cultured with collagen IV (col.17). Fung teaches the cells are isolated using labeled antibodies (col.19-20).

Fung does not teach the method wherein the labeled antibody is CD56. However, at the time of the claimed invention, it was known in the art that pancreatic cells express CD56. In support, Shipley teaches CD56 is expressed in pancreatic islets, and that the marker can be used to isolate pancreatic cells (abstract, p.87,88). Thus, at the time of the claimed invention, it would have been obvious to one of ordinary skill in the art to utilize CD56 as the labeled binding reagent of Fung, since it was a known marker of pancreatic cells, as evidenced by Shipley. Moreover, at the time of the claimed invention, one of ordinary skill in the art would have been motivate by Shipley to use CD56 as the labeled binding reagent of Fung with a reasonable expectation for successfully obtaining a culture of propagating pancreatic cells.

Response to Arguments

Applicant argues that a prima facie case has not been made, in that Fung requires a first step of dissecting pancreas ducts from the pancreas. Applicant additionally argues that the reference merely teaches use of antibodies, not CD56 antibodies. Applicant argues that Shipley does not teach a method for isolating and propagating pancreatic cells, but only that CD56 is embedded in the cells. Moreover, applicant argues the reference individually.

However, these arguments fail to persuade because the claims are open ended and thus may include additional steps to the method.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on

combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Thus, the teachings of the combined references clearly suggest the claimed invention, as stated above.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth A. Davis whose telephone number is 571-272-0915. The examiner can normally be reached on M-F 7:00 - 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ruth A. Davis Primary Examiner Art Unit 1651 ROAM

August 30, 2006